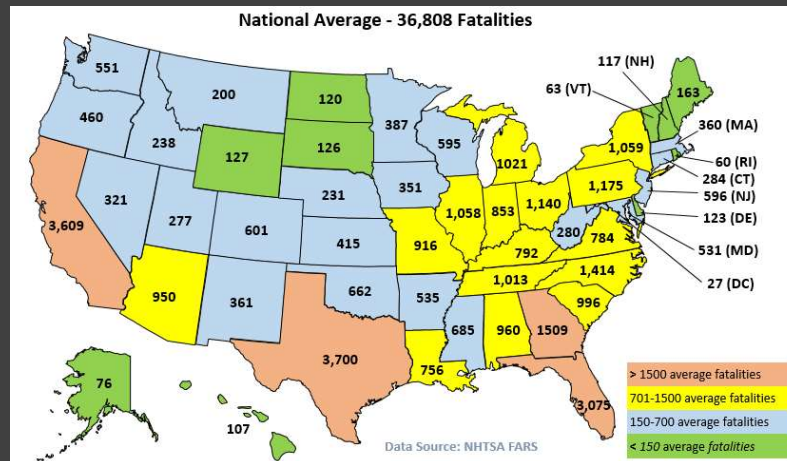


Traffic Fatalities (2015 - 2017 Average)

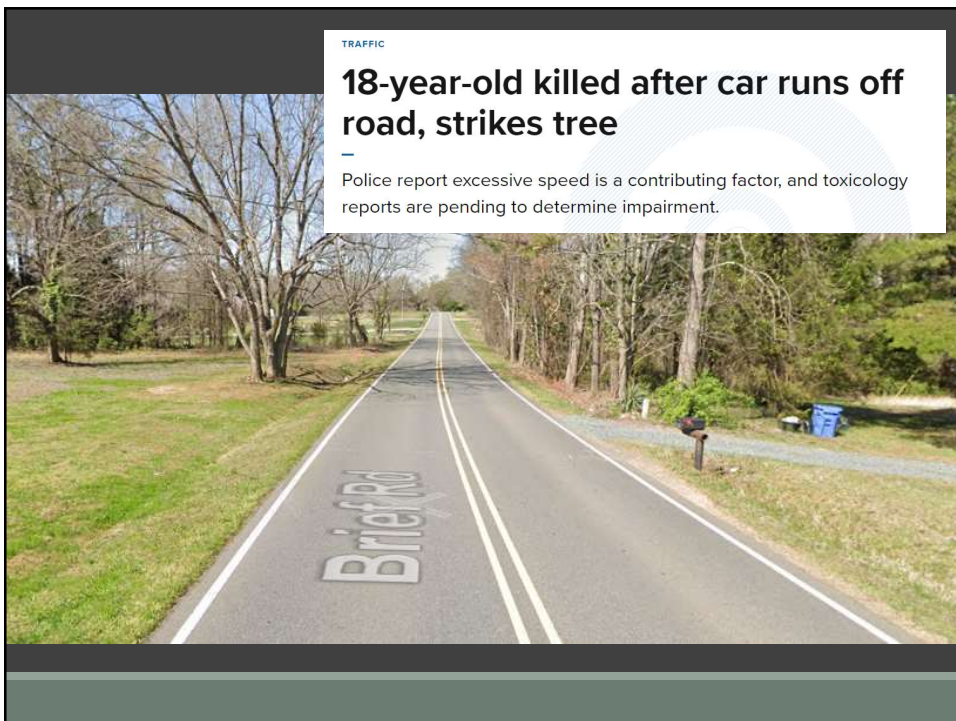


FHWA Safety Goal

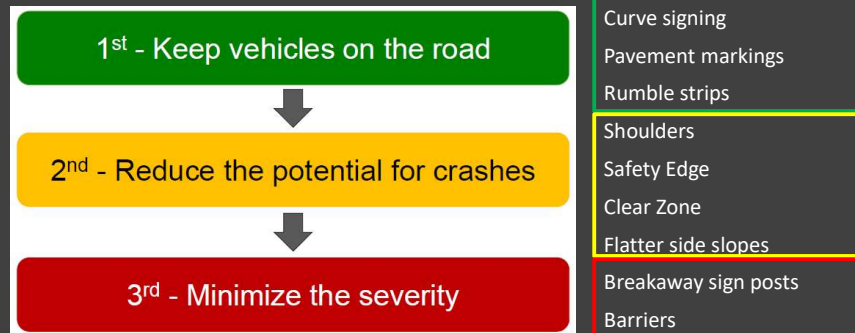
Reduce transportation-related fatalities and serious injuries across the transportation system.



<https://youtu.be/oPwvY9Gflw0>



Roadway Departure Objectives



Signing and Striping Tips

Look for opportunities for improvements – don't just replace what's out there

Consider using 6" edge lines

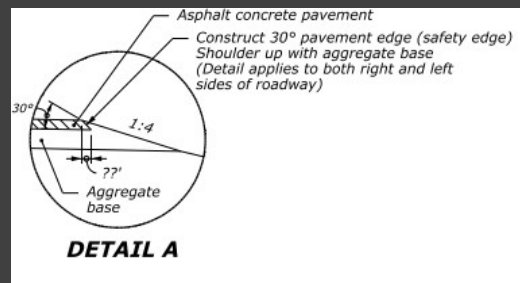
Determine the type of sign post preferred by the client



Safety Edge Tips

Account for the width of the safety edge

Use the latest Typical Section template drawing for the Safety Edge



Other Tips

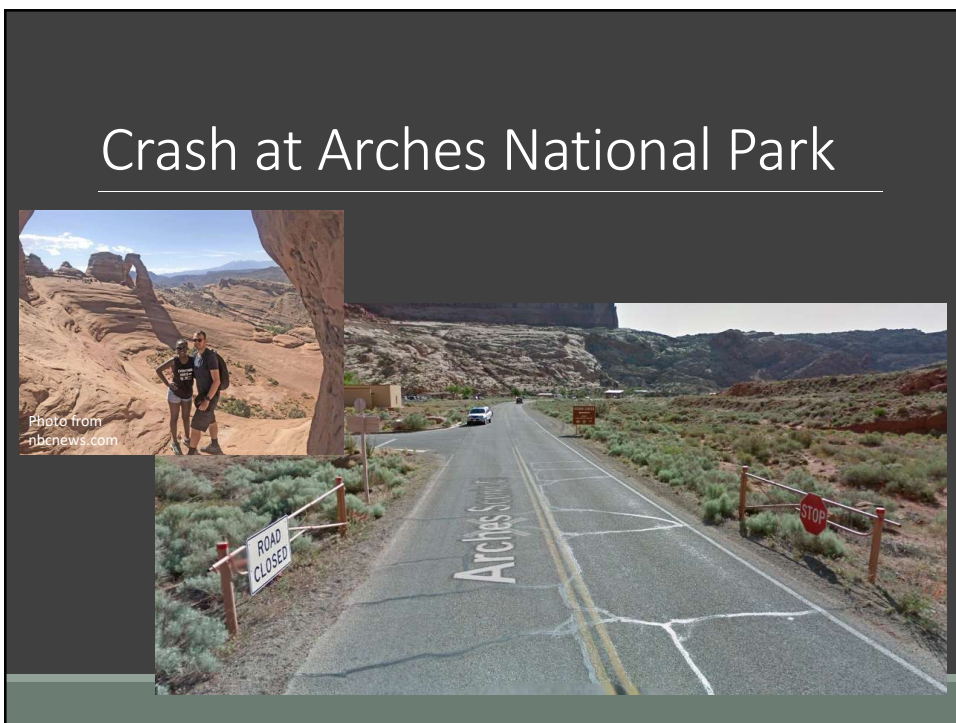
Consider innovative safety countermeasures and work zone devices (mumble strips, rectangular rapid flashing beacons, temporary portable rumble strips, etc.)



Road Closure Gates



Crash at Arches National Park



NPS Safety Alert – Swing Arm Gates

June 2020

Action: Upon receipt of this alert, the following actions are required for all park-owned roads to include those closed to the public or on roads where we have responsibility for maintaining and operating the gates:

- Gates must be fully retroreflectORIZED on both sides. If used on a one-way roadway or ramp, the retroreflectORIZATION may be omitted on the side of the gate facing away from approaching traffic.
- Ensure the gate arms rotate open in the downstream direction only. When the gate is open, ensure that the gates are properly pointed and secured in the downstream direction.
- Ensure swing arm gates are properly secured when in either the open or closed position.
- Inspect gates with respect to applicable standards and recommendations of Section 2B.68 Gates in the Manual on Uniform Traffic Control Device (MUTCD).

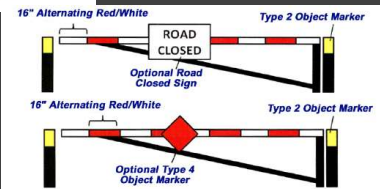


Figure 1 Example of retroreflectivity marking on a swing gate. Image credit: <https://reflectivetape.info/gate-stripping-requirements-reflective-tape-army-corp-of-engineers/>

Check Road Closure Gates



Near Hoover Dam

Resources

- Proven Safety Countermeasures
<https://safety.fhwa.dot.gov/provencountermeasures/>
- Fatality/Injury Reporting System Tool (FIRST)
<https://cdan.dot.gov/query>
- Crash Modification Factors Clearinghouse
<http://www.cmfclearinghouse.org/>
- Low Cost Treatments for Horizontal Curve Safety
https://safety.fhwa.dot.gov/roadway_dept/horcurves/fhwasa15084/fhwasa15084rev011720_508_FINAL.pdf

Questions
